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ABSTRACT

Eighteen articles published during 1983 and 1984 and cited in "Current Index to Journals in Education" are listed in this bibliography. Articles listed include discussions of the state-of-the-art in interactive video, the capabilities of interactive videotape and videodisc systems, and technical aspects of program design, development, and costs. Applications of interactive video in education are emphasized, and projects described include use of an interactive computer-videodisc system to teach hearing impaired students, a videodisc simulation to teach college-level Spanish, social studies instruction programs, and varied higher education uses. In addition to bibliographical information and the annotation, ERIC accession numbers are provided. (LMM)

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INTERACTIVE VIDEO

A Selected ERIC Bibliography

Citations in this bibliography were selected from the Educational Resources Information Center (ERIC) index Current Index to Journals in Education (CIJE).

Amanda, Genine. Why educators should take the interactive media plunge. Educational-Industrial Television. June 1983 15(6), 45-46, 56.

Suggests using videodiscs interfaced with microcomputers for educational purposes and discusses a program designed to promote use of interactive video in medical education.

Brawley, Rod J.; Peterson, Barbara A. Interactive videodisc: An innovative instructional system. American Annals of the Deaf, September 1983, 128(5), 685-700. (Available UMI: EJ 291 660)

A three-year project at the California School for the Deaf - Riverside has focused on developing an interactive computer videodisc system to teach hearing impaired students. Preliminary results have revealed that the system appears to be an effective motivating instructional tool.

Copeland, Peter. An interactive video system for education and training. British Journal of Educational Technology, January 1983, 14(1), 59-65. (Available UMI: EJ 278 352)

Describes interactive video teaching system (CAVIS) which mixes videocassette pictures, text and videotex diagrams, presented via single television screen with sound. The development of CAVIS, related research, teacher-learner interaction, creating courseware, equipment compatibility, and evaluating trainee and courseware performance are highlighted.

Currier, Richard L. Interactive videodisc learning systems. High Technology, November 1983, 3(11), 51-59.

Discussion of capabilities of interactive videodisc which combines video images recorded on disc and random access highlights interactivity, teaching techniques with videodiscs, costs and games. Illustrative material is provided.

Gale, Larrie E. Montevidisco: An anecdotal history of an interactive videodisc. CALICO Journal, June 1983, 1(1), 42-46.

The development of an interactive videodisc simulation of a visit to a Mexican village for college-level Spanish instruction is described. Problems encountered, production considerations, program development, hardware and classroom results are discussed.

Hoekema, Jim. Interactive videodisc: A new architecture. Performance and Instruction, November 1983, 22(9), 6-9. (Available UMI: EJ 291 916)

Technical aspects of interactive videodisc design are discussed.

Hon, David. The promise of interactive video: An affective search. Performance and Instruction, November 1983, 22(9), 21-23. (Available UMI: EJ 291 918)

Argues that factors that create a feeling of interacting in the human situation—response time, spontaneity, lack of distraction—should be included as prime elements in the design of human/machine systems, e.g., computer assisted instruction and interactive video. A computer/videodisc learning system for cardiopulmonary resuscitation and its effectiveness are discussed.

Howe, Samuel. Interactive video. Instructor, January 1984, 93(5), 108-110. (Available UMI: EJ 292 454)

This article explains how teachers can develop their own interactive video programs. Suggestions for choosing equipment and developing lessons are given, and the development of a local history lesson using interactive video is described.

Leveridge, Leo L. The interactive videodisc. Mobius, April 1983, 3(2), 68-72. (Available UMI: EJ 279 073)

Looks at the capabilities of optical videodisc recordings and principles of audiovisual and computer-assisted instruction for use in medical education.

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Levin, Will. Interactive video: The state-of-the-art teaching machine. Computing Teacher, September 1983, 11(2), 11-17. (Available UMI: EJ 290 130)

Provides an overview of recent developments in interactive video, including information on hardware requirements, federal programs to promote courseware development, implementation in the classroom, and currently available software. Emphasis is given to the perspective of the classroom teacher who wishes to explore this development further.

Manning, D. Thompson; et al. Interactive videodiscs: A review of the field. Viewpoints in Teaching and Learning, Spring 1983, 59(2), 28-40. (Available UMI: EJ 287 544)

A detailed perspective on the current status of interactive videodiscs is provided, along with brief examples of their present uses in education. Considerations in program development and evaluation are also discussed. A substantial list of references is included.

Martorella, Peter H. Interactive video systems in the classroom. Social Education, May 1983, 47(5), 325-327. (Available UMI: EJ 281 963)

Discusses three current social studies projects employing interactive videodisc systems.

Price, Barrie Jo; Marsh, George E. Interactive video instruction and the dreaded change in education. Technological Horizons in Education, May 1983, 10(7), 112-117. (Available UMI: EJ 281 688)

Interactive video (computer controlled video instruction) has the potential to transform the educational delivery system in public education. The fiscal demise of public education, current uses of technology in education, interactive video courseware, project considerations, and future prospects are discussed.

Troutner, Joanne. How to produce an interactive video program. Electronic Learning, January 1983, 2(4), 70-75. (Available UMI: EJ 274 758)

Provides a step-by-step guide to creating an interactive video program, using technology that allows a computer program to control a video program. Discusses the concept, equipment and process involved. A buyer's guide to video interface cards is included.

Simcoe, Darryl D. Interactive video today. Instructional Innovator, November-December 1983, 28(8), 12-13. (Available UMI: EJ 291 958)

Application in higher education of IVIS (interactive video instructional systems) is in its beginning stages. Survey of media professionals indicates they have positive attitudes toward IVIS use and some training has begun, but lack of software and financing present major barriers.

Sustik, Joan M.; Brooks, Terrence A. Retrieving information with interactive videodiscs. Journal of the American Society for Information Science, November 1983, 34(6), 424-432. (Available UMI: EJ 291 887)

Describes applications in a variety of settings of videodiscs as tools for information retrieval with online databases, identifies technical capabilities, and discusses operations required to implement any application. Seventeen sources listed.

Wilson, Robert L. Interactive video: What makes it work? Performance and Instruction, November 1983, 22(9), 26-27. (Available UMI: EJ 291 919)

Reviews trainers' attitudes toward interactive video as well as how interactive video facilitates the learning process, the importance of the instructor, and a discussion of system hardware and the interface function.

Woodward, Harry. Talents and tolerance: Writing interactive video. Performance and Instruction, November 1983, 22(9), 17-20. (Available UMI: EJ 291 917)

Discusses disciplines required in writing branching programs for interactive video, underscoring the need to work from a flowchart, function on a team, and develop skills to write nonlinearly. Problems encountered are compared with Faulkner's novel, "The Sound and the Fury," and the development of two programs is briefly described.

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All citations are journal articles from CIJE, which can be obtained from a library, borrowed through interlibrary loan, or ordered through UMI, 300 N. Zeeb Rd., Ann Arbor, MI 48106 ($12.00 per article), if so indicated.